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Akkerman 1-51

LFW

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Akkerman et al.

Serial No.: 10/701,183

Filed: November 4, 2003

For: DEVICES HAVING LARGE ORGANIC  
SEMICONDUCTOR CRYSTALS AND  
METHODS OF MAKING THE SAME

Group: 2871

Examiner: Not Yet Assigned

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date set forth below:

Signed: Marianna Tortorelli

Name: Marianna Tortorelli

Date: June 14, 2004

Durham, North Carolina  
June 14, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER § 197(a)

Sir:

This Information Disclosure Statement is being filed before a first Official Action has been mailed in this case.

Pursuant to 37 C.F.R. 1.56, 1.97 and 1.98, applicant's attorney wishes to bring to the attention of the Patent and Trademark Office the following items listed on the accompanying Forms PTO/SB/08A and PTO/SB/08B.

## ITEMS

	<u>Document No.</u>	<u>Publication Date</u>	<u>Patentee/Applicant</u>
1.	U.S. Patent No. 5,192,580	03/09/1993	Blanchet-Fincher
2.	U.S. Patent No. 5,288,528	02/22/1994	Blanchet-Fincher
3.	U.S. Patent No. 5,347,144	09/13/1994	Garnier et al.
4.	U.S. Patent No. 5,523,192	06/04/1996	Blanchet-Fincher
5.	U.S. Patent No. 5,563,019	10/08/1996	Blanchet-Fincher
6.	U.S. Patent No. 5,625,199	04/29/1997	Baumbach et al.
7.	U.S. Patent No. 5,766,819	06/16/1998	Blanchet-Fincher
8.	U.S. Patent No. 5,840,463	11/24/1998	Blanchet-Fincher
9.	U.S. Patent No. 5,981,970	11/09/1999	Dimitrakopoulos et al.
10.	U.S. Patent No. 6,051,318	04/18/2000	Kwon
11.	U.S. Patent No. 6,143,451	11/07/2000	Blanchet-Fincher
12.	U.S. Patent No. 6,146,792	11/14/2000	Blanchet-Fincher et al.
13.	U.S. Patent No. 6,174,651	01/16/2001	Thakur
14.	U.S. Patent No. 6,265,243	07/24/2001	Katz et al.
15.	U.S. Patent No. 6,352,811	03/05/2002	Patel et al.
16.	U.S. Patent No. 6,352,812	03/05/2002	Shimazu et al.
17.	U.S. Patent No. 6,403,397	06/11/2002	Katz
18.	U.S. Patent No. 6,551,717	04/22/2003	Katz et al.
19.	U.S. Publication No. 2002/0149315 A1	10/17/2002	Blanchet-Fincher
20.	U.S. Application No. 10/256,885	09/27/2002	Bao et al.
21.	U.S. Application No. 10/669,780	09/24/2003	Bao

22.	U.S. Application No. 60/505,533	09/24/2003	Meth
23.	U.S. Application No. 60/505,880	09/24/2003	Meth et al.
24.	U.S. Application No. 10/671,303	09/24/2003	Bao et al.
25.	U.S. Application No. 10/722,613	11/26/2003	Aizenberg et al.
26.	PCT Publication No. WO 01/87634 A2	11/22/2001	E.I. du Pont de Nemours and Company
27.	PCT Publication No. WO 02/08801 A1	01/31/2002	E.I. du Pont de Nemours and Company
28.	PCT Publication No. WO 02/092352 A1	11/21/2002	E.I. du Pont de Nemours and Company

#### Other Publications

29. AFZALI ET AL., High-Performance, Solution-Processed Organic Thin Film Transistors from a Novel Pentacene Precursor, J. Am. Chem. Soc., 2002, Page(s) 8812-8813, Volume 124
30. AFZALI ET AL., Synthesis and Application of Pentacene Precursor in OTFT, Publisher: IBM Research Division, Published in: Yorktown Heights, NY
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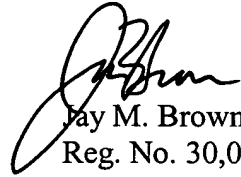
36. COLLET ET AL., High Anisotropic Conductivity in Organic Insulator/Semiconductor Monolayer Heterostructure, *Applied Physics Letters*, 3/6/2000, Page(s) 1339-1341, Volume 76, Number 10, Publisher: American Institute of Physics
37. COLLET ET AL., Low-Voltage, 30 nm Channel Length, Organic Transistors with a Self-Assembled Monolayer as Gate Insulating Films, *Applied Physics Letters*, April 3, 2000, Page(s) 1941-1943, Volume 76, Number 14
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39. DE BOER ET AL., Synthesis and Characterization of Conjugated Mono- and Dithiol Oligomers and Characterization of Their Self-Assembled Monolayers, *Langmuir*, 2003, Page(s) 4272-4284, Volume 19
40. ECHAVARREN ET AL., *J. Am. Chem. Soc.*, 1987, Page(s) 5478-5486, Volume 109
41. FORREST, Ultrathin Organic Films Grown by Organic Molecular Beam Deposition and Related Techniques, *Chem. Rev.*, Page(s) 1793-1896, Volume 97, Publisher: American Chemical Society
42. HALIK ET AL., High-Mobility Organic Thin-Film Transistors Based on a, a'-didecyloligothiophenes, *Journal of Applied Physics*, March 1, 2003, Page(s) 2977-2981, Volume 93, Number 5
43. HAN ET AL., Effect of Magnesium Ions on Oriented Growth of Calcite on Carboxylic Acid Functionalized Self-Assembled Monolayer, *J. Am. Chem. Soc.*, 2003, Page(s) 4032-4033, Volume 125
44. HAN ET AL., Face-Selective Nucleation of Calcite on Self-Assembled Monolayers of Alkanethiols: Effect of the Parity of the Alkyl Chain, *Angew. Chem. Int. Ed.*, 2003, Page(s) 3668-3670, Volume 42
45. HONG ET AL., Thiophene-Phenylene and Thiophene-Thiazole Oligomeric Semiconductors with High Field-Effect Transistor On/Off Ratios, *Chem. Mater.*, 2001, Page(s) 4686-4691, Volume 13, Number 12
46. JOHNSTON ET AL., Low-Energy Vibrational Modes in Phenylene Oligomers Studied by THz Time-Domain Spectroscopy, *Chemical Physics Letters*, 2003, Page(s) 256-262, Volume 377

47. KATZ ET AL., Synthesis, Solubility, and Field-Effect Mobility of Elongated and Oxa-substituted a,w-Dialkyl Thiophene Oligomers: Extension of 'Polar Intermediate' Synthetic Strategy and Solution Deposition on Transistor Substrates, Chem. Mater., 1998, Page(s) 633-638, Volume 10, Number 2
48. KLAUK ET AL., High-Mobility Polymer Gate Dielectric Pentacene Thin Film Transistors, Journal of Applied Physics, November 1, 2002, Page(s) 5259-5263, Volume 92, Number 9
49. KLAUK ET AL., Pentacene Organic Thin-Film Transistors and ICs, Solid State Technology, March 2000, Page(s) 63-76, Volume 43, Number 3
50. LI ET AL., Field-Effect Transistors Based on Thiophene Hexamer Analogues with Diminished Electron Donor Strength, Chem. Mater., 1999, Page(s) 458-465, Volume 11, Number 2
51. MATTERS ET AL., Organic Field-Effect Transistors and All-Polymer Integrated Circuits, Optical Materials, 1999, Page(s) 189-197, Volume 12
52. MEYER ZU HERINGDORF ET AL., Growth Dynamics of Pentacene Thin Films, Nature, August 2, 2001, Page(s) 517-520, Volume 412
53. MUSHRUSH ET AL., Easily Processable Phenylene-Thiophene-Based Organic Field-Effect Transistors and Solution-Fabricated Nonvolatile Transistor Memory Elements, J. Am. Chem. Soc., 2003, Page(s) 9414-9423, Volume 125, Number 31
54. SEO ET AL., Interpretation of the Mass Change Behavior in the Binary Monolayer of Hydroquinone-tethered Alkylthiol and Aminoalkylthiol, Bull. Korean Chem. Soc., 2002, Page(s) 1671-1673, Volume 23, Number 11
55. STABEL ET AL., Scanning Tunneling Microscopy of Alkylated Oligothiophenes at Interfaces with Graphite, Synthetic Metals, 1994, Page(s) 47-53, Volume 67
56. TANIMOTO ET AL., Binary Phase Chlorination of Aromatic Hydrocarbons with Solid Copper(II) Chloride: Reaction Mechanism, Bull. Chem. Soc. Japan, 1979, Page(s) 3586-3591, Volume 52, Number 12
57. XIA ET AL., Soft Lithography, Angew. Chem. Int. Ed., 1998, Page(s) 550-575, Volume 37

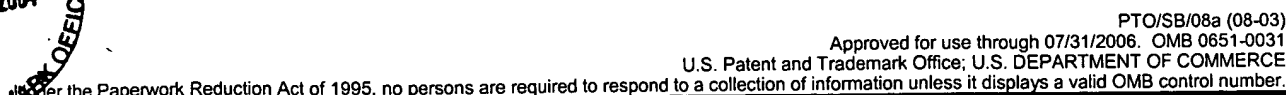
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information cited is considered to be material to patentability, nor shall it be construed that no other material information exists.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Jay M. Brown", is positioned above the printed name and address.

Jay M. Brown  
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5015 Southpark Drive, Suite 230  
Durham, NC 27713-7736  
(919) 806-1600



# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

**Complete if Known**

Application Number	10/701,183
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Filing Date	November 4, 2003
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First Named Inventor	Akkerman et al.
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Art Unit	2871
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Examiner Name

Attorney Docket Number	100.2498
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Sheet

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## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/701,183
				Filing Date	November 4, 2003
				First Named Inventor	Akkerman et al.
				Art Unit	2871
				Examiner Name	
Sheet	2	of	5	Attorney Docket Number	100.2498

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	21	US- 10/669,780	09/24/2003	Bao	
	22	US- 60/505,533	09/24/2003	Meth	
	23	US- 60/505,880	09/24/2003	Meth et al.	
	24	US- 10/671,303	09/24/2003	Bao et al.	
	25	US- 10/722,613	11/26/2003	Aizenberg et al.	
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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	26	WO 01/87634 A2	11/22/2001	E.I. du Pont de Nemours and Company		
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			Application Number	10/701,183	
			Filing Date	November 4, 2003	
			First Named Inventor	Akkerman et al.	
			Art Unit	2871	
			Examiner Name		
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NON PATENT LITERATURE DOCUMENTS			
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	29	AFZALI ET AL., High-Performance, Solution-Processed Organic Thin Film Transistors from a Novel Pentacene Precursor, J. Am. Chem. Soc., 2002, Page(s) 8812-8813, Volume 124	
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	41	FORREST, Ultrathin Organic Films Grown by Organic Molecular Beam Deposition and Related Techniques, Chem. Rev., Page(s) 1793-1896, Volume 97, Publisher: American Chemical Society	
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				<i>Art Unit</i>	2871
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				<i>Attorney Docket Number</i>	100.2498
Sheet	5	of	5		

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